Bruhat Bangalore Mahanagara Palike
Excecutive Engineer Yelahanka Zone Project Division

Name of Work: Improvements to roads and drains around Ramachandrapura, Kuvempunagara, Vaishnavi Layout, Srinidhi Layout and Sai Garden in Ward No.11 Kuvempunagara

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Civil Work								
1	Removing & Refixing stone slabs of drains and pointing in C.M (1:3) (Page No 27., I.No.5.33 of KPWD S.R 2018-19).								
	Basic rate	105.00							
	6% AW	6.30							
	Sub Total	111.30							
	Drain Slab								
	NTC mn rd, tiles factory	2	290.00	1.50		870.00			
		2	230.00	1.50		690.00			
	Raghavendra layout	2	210.00	1.50		630.00			
		2	100.00	1.50		300.00			
		2	100.00	1.50		300.00			
	Teachers colony	2	210.00	1.50		630.00			
		2	150.00	1.50		450.00			
	Vaishnavi layout	2	480.00	1.50		1440.00			
	Ramachandrapura	2	364.00	1.50		1092.00			
						6402.00			
	Deduct 35% damaged/missing					2240.70			
						4161.30	**Sqm**	**111.30**	**463152.69**
2	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (I No-19.1,P No-143)								
	Basic rate	130.00							
	6% AW	7.80							
	Sub Total	137.80							
	load unloading 12km lead & lift	87.82							
	Sub Total	225.62							
	Desilt								
	NTC mn rd, tiles factory	2	290.00	0.45	0.50	130.50			
		2	230.00	0.45	0.50	103.50			
	Raghavendra layout	2	210.00	0.45	0.50	94.50			
		2	100.00	0.45	0.50	45.00			
		2	100.00	0.45	0.50	45.00			
	Teachers colony	2	210.00	0.45	0.50	94.50			
		2	150.00	0.45	0.50	67.50			
	Vaishnavi layout	2	480.00	0.45	0.50	216.00			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Ramachandrapura	2	364.00	0.45	0.50	163.80			
	For Flagging Course								
	NTC mn rd, tiles factory	4	290.00	0.20	0.20	46.40			
		4	230.00	0.20	0.20	36.80			
	Raghavendra layout	4	210.00	0.20	0.25	42.00			
		4	100.00	0.20	0.25	20.00			
		4	100.00	0.20	0.25	20.00			
	Teachers colony	4	210.00	0.20	0.20	33.60			
		4	150.00	0.20	0.20	24.00			
	Vaishnavi layout	4	480.00	0.20	0.20	76.80			
	Ramachandrapura	4	364.00	0.20	0.20	58.24			
						1318.14	**Cum**	**225.62**	**297398.7**
3	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No-13,I No-4.6)								
	Basic rate	5422.00							
	6% AW	325.32							
	Sub Total	5747.32							
	For Flagging Course P.C.C								
	NTC mn rd, tiles factory	4	290.00	0.25	0.10	29.00			
		4	230.00	0.25	0.10	23.00			
	Raghavendra layout	4	210.00	0.25	0.10	21.00			
		4	100.00	0.25	0.10	10.00			
		4	100.00	0.25	0.10	10.00			
	Teachers colony	4	210.00	0.25	0.10	21.00			
		4	150.00	0.25	0.10	15.00			
	Vaishnavi layout	4	480.00	0.25	0.10	48.00			
	Ramachandrapura	4	364.00	0.25	0.10	36.40			
	For Flagging Course Coping								
	NTC mn rd, tiles factory	4	290.00	0.15	0.075	13.05			
		4	230.00	0.15	0.075	10.35			
	Raghavendra layout	4	210.00	0.15	0.075	9.45			
		4	100.00	0.15	0.075	4.50			
		4	100.00	0.15	0.075	4.50			
	Teachers colony	4	210.00	0.15	0.075	9.45			
		4	150.00	0.15	0.075	6.75			
	Vaishnavi layout	4	480.00	0.15	0.075	21.60			
	Ramachandrapura	4	364.00	0.15	0.075	16.38			
						96.03	**Cum**	**5747.32**	**551915.14**

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
4	KSRB 5-14.1 : Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m3 having a minimum average compressive strength of 5.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No.5.4. (P.No-27,I No-5.27.2)								
	Basic rate	953.00							
	6% AW	57.18							
	Sub Total	1010.18							
	For Flagging Course Coping								
	NTC mn rd, tiles factory	4	290.00		0.20	232.00			
		4	230.00		0.20	184.00			
	Raghavendra layout	4	210.00		0.20	168.00			
		4	100.00		0.20	80.00			
		4	100.00		0.20	80.00			
	Teachers colony	4	210.00		0.20	168.00			
		4	150.00		0.20	120.00			
	Vaishnavi layout	4	480.00		0.20	384.00			
	Ramachandrapura	4	364.00		0.20	291.20			
						1707.20			
	Add 15% addn for height					**256.08**			
						1963.28	**Sqm**	**1010.18**	**1983266.19**
5	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete.(7.5cms thick)(I No-5.31.1,P No-27)								
	Basic rate	700.00							
	6% AW	42.00							
	Sub Total	742.00							
	Drain Slab								
	Consider frm item 1					2240.70			
						2240.70	**Sqm**	**742.00**	**1662599.40**
6	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
	Basic rate	2337.00							
	Top Covering Slab								
	NTC mn rd, tiles factory	2	290.00	0.90		522.00			
		2	230.00	0.90		414.00			
	Raghavendra layout	2	210.00	0.90		378.00			
		2	100.00	0.90		180.00			
		2	100.00	0.90		180.00			
	Teachers colony	2	210.00	0.90		378.00			
		2	150.00	0.90		270.00			
	Vaishnavi layout	2	480.00	0.90		864.00			
	Ramachandrapura	2	364.00	0.90		655.20			
						3841.20			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Deduct 20%					768.24			
						3072.96	**Sqm**	**2337.00**	**7181507.5**
7	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete, 10 cms thick. Page No. 27/ Item No. 5.31.2 PWD SR 2018-19								
	Basic rate	912.00							
	6% AW	54.72							
	Sub Total	966.72							
	Frm item 6					768.24			
						768.24	**Sqm**	**966.72**	**742672.9**
8	KSRB 5-8.2 : Providing two line dressing to granite stone slab / granite stone masonry as per specifications. KBS 5.1.13. Page No. 26/ Item No. 5.18 PWD SR 2018-19								
	Basic rate	1495.00							
	6% AW	89.70							
	Sub Total	1584.70							
	Frm item 6					768.24			
						768.24	**Sqm**	**1584.70**	**1217429.9**
B	RoadWork								
9	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications. MORTH Specification No.301 (Page No143., I.No.19.14 of KPWD S.R 2018-19).								
	Basic rate	41.00							
	6% AW	2.46							
	Sub Total	43.46							
	16km Lead Transport= (1.28*2*10)	25.60							
	Sub Total	69.06							
	MS palya, Opp BML Apt	1	55.00	3.00	0.300	49.50			
	Singapura lt 7th cross								
	Road -1	1	59.00	5.50	0.300	97.35			
	Road -2	1	48.00	4.40	0.300	63.36			
	Vinayakanagar 10th cross								
	Road -1	1	45.00	1.80	0.300	24.30			
	Road -2	1	47.00	1.80	0.300	25.38			
	Road -3	1	13.00	1.80	0.300	7.02			
	MS palya 1st main								
	Road -3	1	38.00	0.80	0.300	9.12			
	Road -4	1	23.00	0.60	0.300	4.14			
	Road -5	1	10.00	0.90	0.300	2.70			
	Road -6	1	16.00	0.50	0.300	2.40			
	Road -7	1	66.00	2.10	0.300	41.58			
	Mubarak road								
	Road -1	1	19.30	1.60	0.300	9.26			
	Road -2	1	16.70	3.20	0.300	16.03			
						352.15	**Cum**	**69.06**	**24319.20**

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
10	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202 (Page No140., I.No.18.47 of KPWD S.R 2018-19).								
	Basic rate	899.00							
	6% AW	53.94							
	Sub Total	952.94							
	16km Lead & lift with Transport= (1.28*2*10)+57	82.60							
	Sub Total	1035.54							
	Hazrath Shafi colony								
	Road -2	1	89.00	4.10	0.150	54.74			
	MS palya 1st main								
	Road -1	1	57.00	3.60	0.150	30.78			
	Road -2	1	46.00	4.00	0.150	27.60			
						113.12	**Cum**	**1035.54**	**117135.1**
11	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision. (Page No 153., I.No.20.5 of KPWD S.R 2018-19).								
	Basic rate	1882.00							
	6% AW	112.92							
	Sub Total	1994.92							
	Singapura lt 7th cross								
	Road -1	1	59.00	5.50	0.150	48.68			
	Road -2	1	48.00	4.40	0.150	31.68			
						80.36	**Cum**	**1994.92**	**160301.8**
12	KSRB 4-1.2 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P.13/I.4.2) PWD SR 2018-19								
	Basic rate	5194.00							
	6% AW	311.64							
	Sub Total	5505.64							
	Hazrath Shafi colony								
	Road -2	1	89.00	4.10	0.150	54.74			
	MS palya, Opp BML Apt	1	55.00	3.00	0.150	24.75			
	Singapura lt 7th cross								
	Road -1	1	59.00	5.50	0.150	48.68			
	Road -2	1	48.00	4.40	0.150	31.68			
	Vinayakanagar 10th cross								
	Road -1	1	45.00	1.80	0.150	12.15			
	Road -2	1	47.00	1.80	0.150	12.69			
	Road -3	1	13.00	1.80	0.150	3.51			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	MS palya 1st main								
	Road -1	1	57.00	3.60	0.150	30.78			
	Road -2	1	46.00	4.00	0.150	27.60			
	Road -3	1	38.00	0.80	0.150	4.56			
	Road -4	1	23.00	0.60	0.150	2.07			
	Road -5	1	10.00	0.90	0.150	1.35			
	Road -6	1	16.00	0.50	0.150	1.20			
	Road -7	1	66.00	2.10	0.150	20.79			
	Mubarak road								
	Road -1	1	19.30	1.60	0.150	4.63			
	Road -2	1	16.70	3.20	0.150	8.02			
						289.19	**Cum**	**5505.64**	**1592165.0**
13	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46um,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications. -do- with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum.(P.No.176, I.No. 22.6.1) PWD SR 2018-19								
	Basic rate	4916.00							
	6% AW	294.96							
	Sub Total	5210.96							
	Hazrath Shafi colony								
	Road -2	1	89.00	4.10	0.150	54.74			
	MS palya, Opp BML Apt	1	55.00	3.00	0.150	24.75			
	Singapura lt 7th cross								
	Road -1	1	59.00	5.50	0.150	48.68			
	Road -2	1	48.00	4.40	0.150	31.68			
	Vinayakanagar 10th cross								
	Road -1	1	45.00	1.80	0.150	12.15			
	Road -2	1	47.00	1.80	0.150	12.69			
	Road -3	1	13.00	1.80	0.150	3.51			
	MS palya 1st main								
	Road -1	1	57.00	3.60	0.150	30.78			
	Road -2	1	46.00	4.00	0.150	27.60			
	Road -3	1	38.00	0.80	0.150	4.56			
	Road -4	1	23.00	0.60	0.150	2.07			
	Road -5	1	10.00	0.90	0.150	1.35			
	Road -6	1	16.00	0.50	0.150	1.20			
	Road -7	1	66.00	2.10	0.150	20.79			
	Mubarak road								
	Road -1	1	19.30	1.60	0.150	4.63			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Road -2	1	16.70	3.20	0.150	8.02			
						289.19	Cum	5210.96	1506947.1
								Total Construction Cost	17500810.8
								GST 12.00%	2100097.3
								DPR & PMC Charges including GST	399000.0
								Total	19999908.1
								Miscellaneous & Rounding off	91.88
								GRAND TOTAL	20000000.0

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019 and Data Rates.

Assistant Engineer
Project Division Yelahanka
BBMP Bangalore

Asst. Executive Engineer,
Project Division Yelahanka
Yelahanka Zone
Bangalore

Executive Engineer,
Project Division Yelahanka
BBMP, Bangalore-92

Technical Sanction
Accorded For RS 200: @ Lakhs only
Head of A/C P1878
CER NO :TC/144/18-19 Dt: 07.12.18

TA CE (YNK)